

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P650737

Luminaire Tested: **GALN-SA2C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11868.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

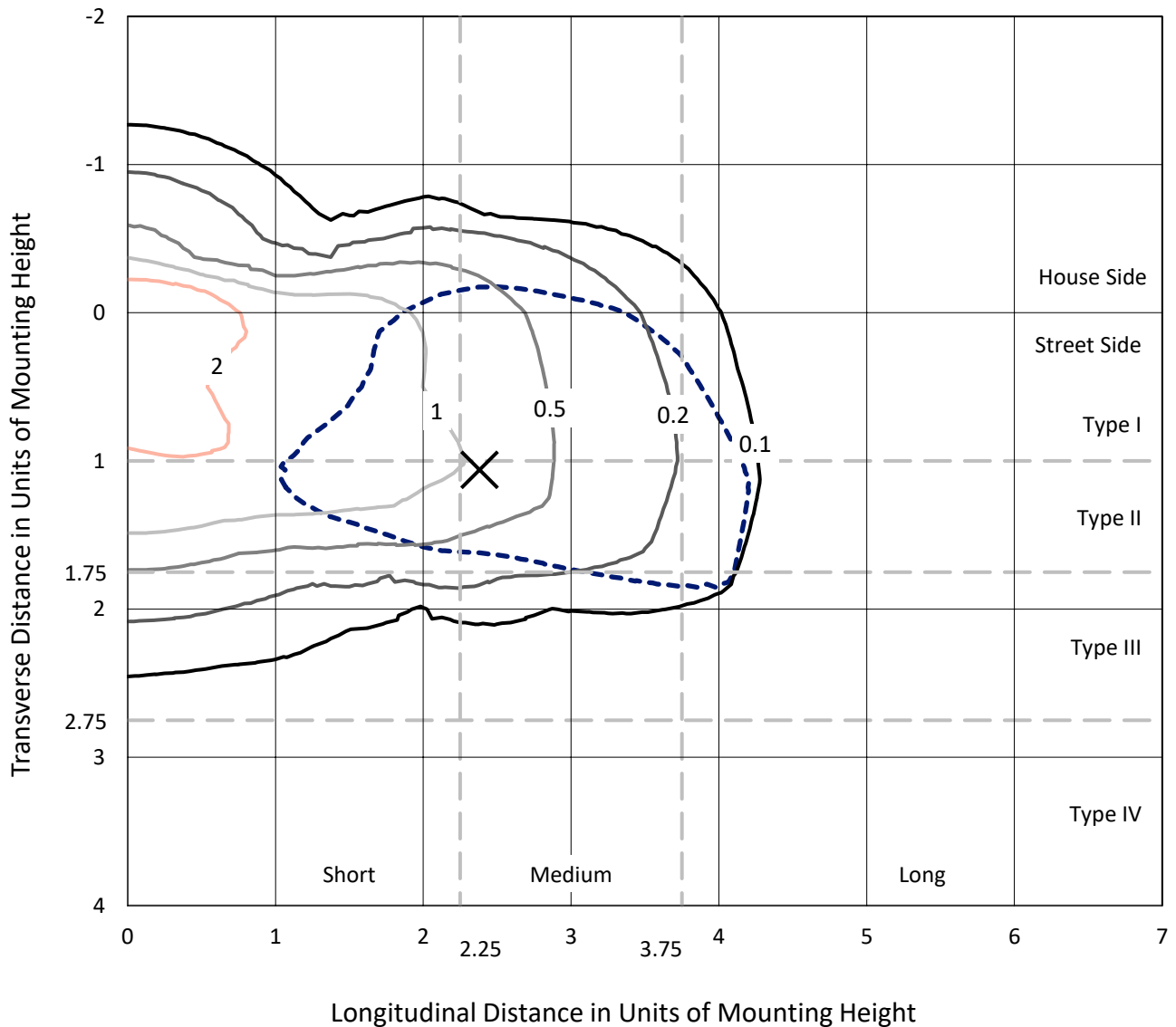
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

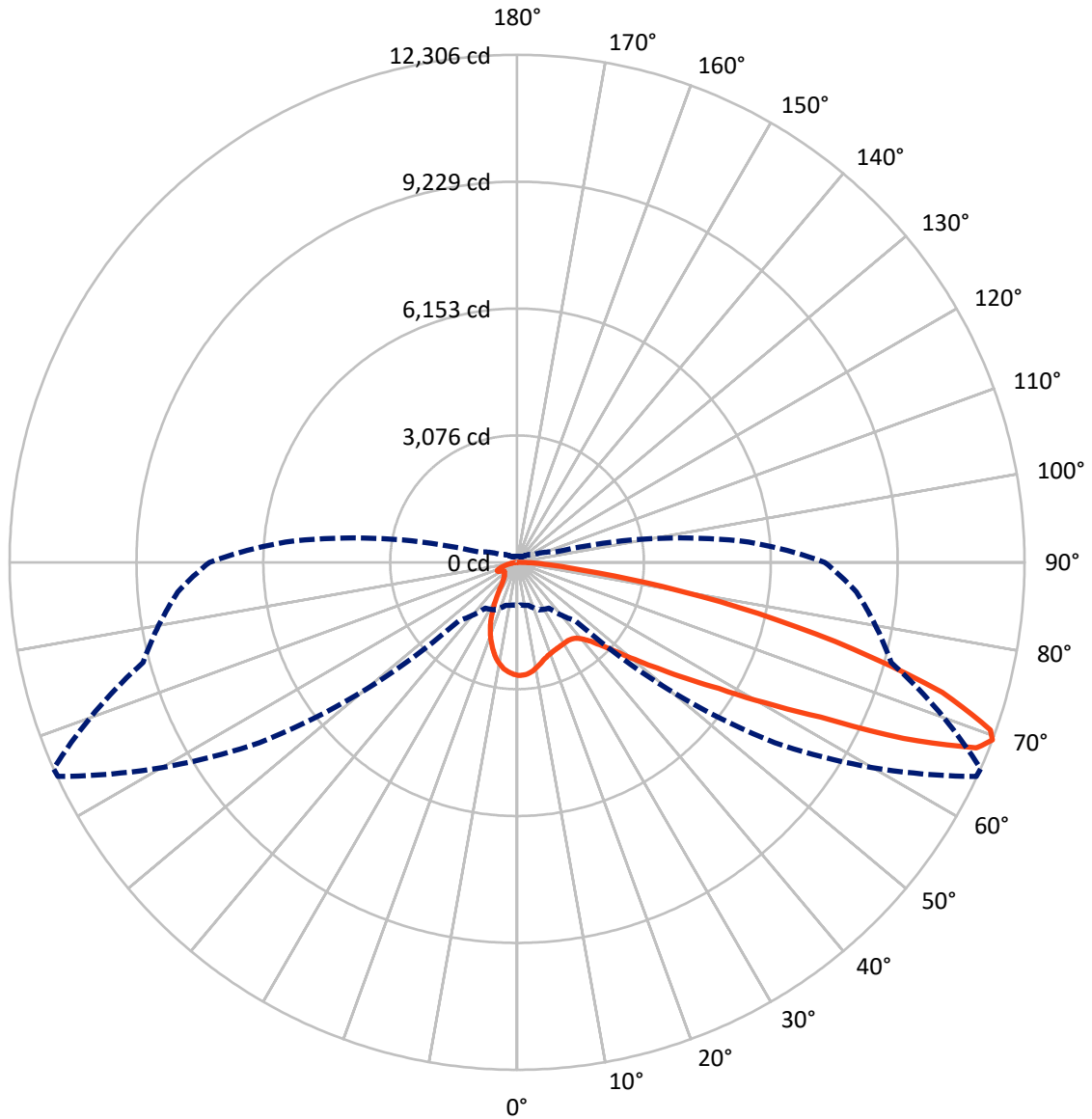
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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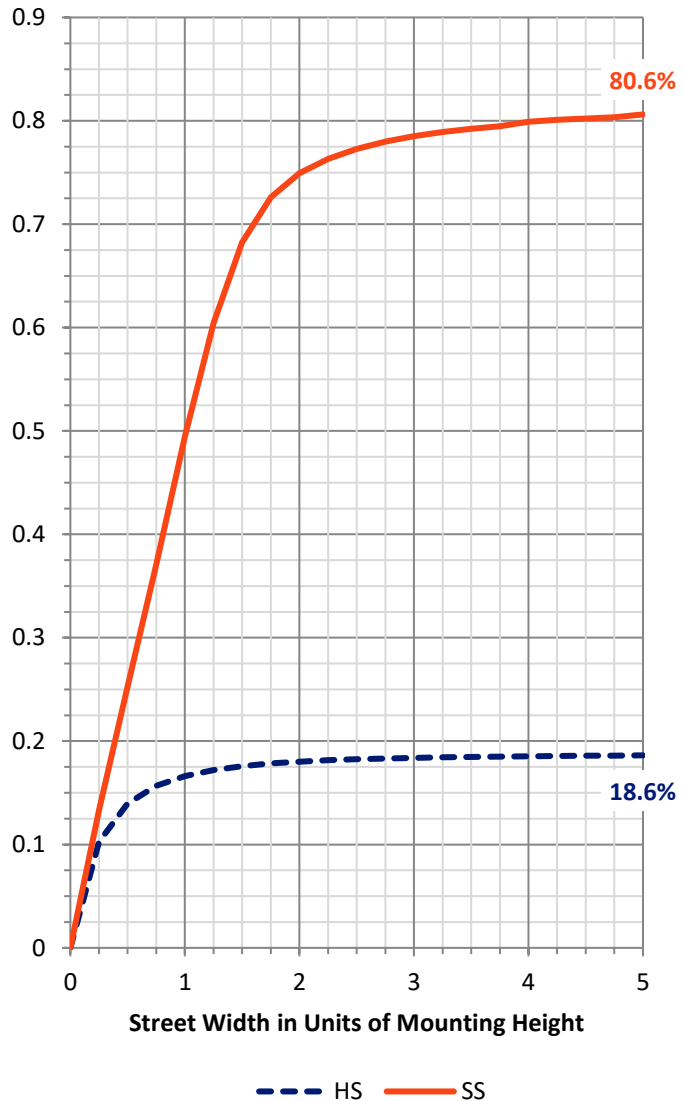
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2232.0	0.0	2232.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9636.2	0.0	9636.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	11868.2	0.0	11868.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	2.0
10°-20°	564.5	4.8
20°-30°	768.5	6.5
30°-40°	1032.7	8.7
40°-50°	1542.0	13.0
50°-60°	2452.8	20.7
60°-70°	3016.8	25.4
70°-80°	1962.9	16.5
80°-90°	289.9	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11868.2	100.0
0°-180°	11868.2	100.0

Coefficient of Utilization

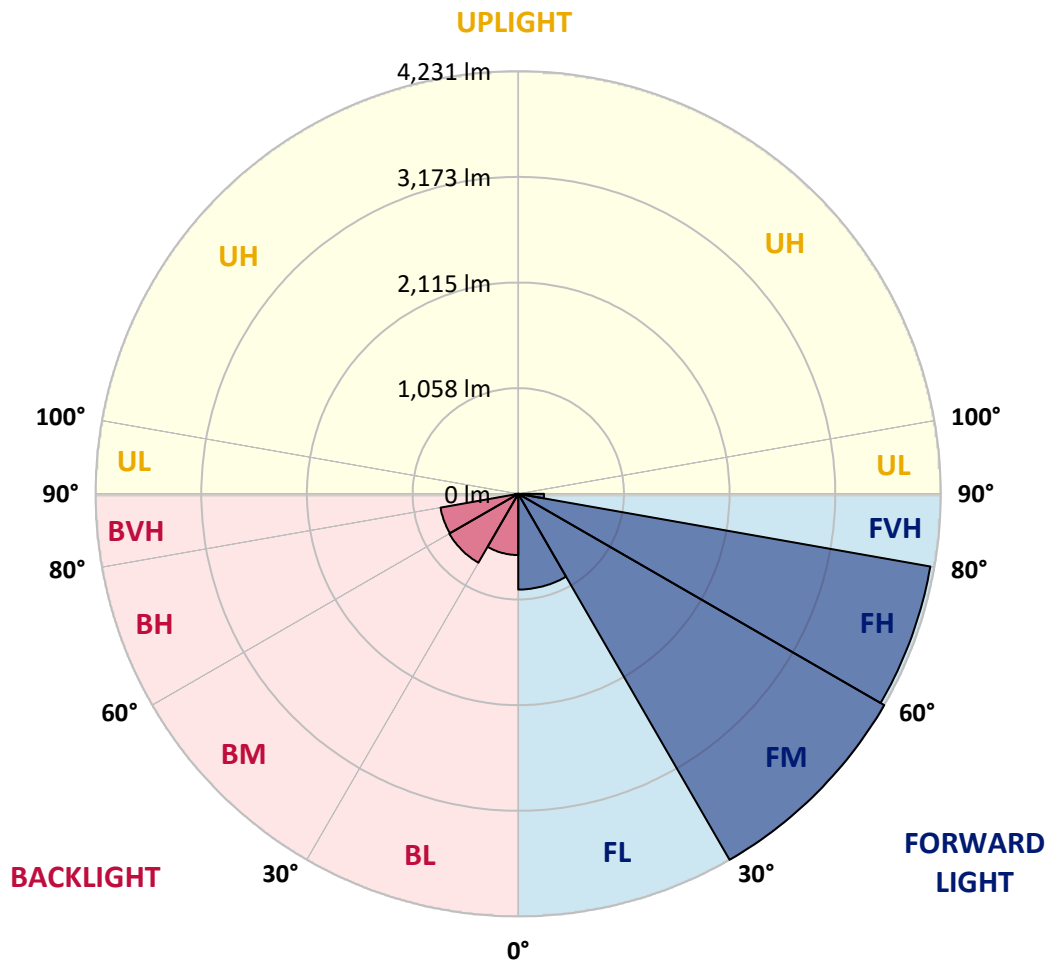


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.3	8.1			
FM (30°-60°)	4230.7	35.6			
FH (60°-80°)	4189.5	35.3			G2/5000
FVH (80°-90°)	257.7	2.2			G3/500
BL (0°-30°)	612.7	5.2	B2/1000		
BM (30°-60°)	796.9	6.7	B1/1000		
BH (60°-80°)	790.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	32.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7
2.5°	2644.8	2655.3	2667.1	2680.3	2705.2	2719.0	2728.9	2740.1	2741.3	2747.3	2742.7
5°	2449.5	2462.0	2479.8	2504.8	2542.2	2600.7	2661.2	2710.5	2716.3	2744.0	2751.8
7.5°	2286.5	2293.7	2308.2	2348.3	2401.6	2466.7	2554.7	2654.6	2669.1	2734.8	2757.8
10°	2153.8	2161.0	2178.1	2219.5	2272.0	2353.5	2450.2	2581.6	2593.5	2706.5	2759.1
12.5°	2054.6	2061.1	2079.5	2120.2	2180.7	2257.0	2363.5	2502.8	2519.9	2669.1	2746.6
15°	1979.0	1991.4	2006.5	2040.1	2103.8	2177.4	2280.6	2430.5	2444.3	2629.6	2738.0
17.5°	1946.7	1952.6	1963.1	1994.1	2040.8	2113.0	2216.9	2374.0	2390.4	2602.1	2736.1
20°	1948.1	1954.0	1955.9	1973.1	2006.5	2069.0	2171.5	2329.2	2349.0	2577.7	2739.4
22.5°	1992.7	1993.4	1986.2	1980.3	1993.4	2045.3	2139.3	2295.8	2318.7	2567.2	2742.0
25°	2061.8	2073.6	2063.1	2035.5	2011.2	2036.1	2126.8	2277.3	2299.0	2552.1	2738.7
27.5°	2173.5	2175.5	2166.9	2129.5	2066.3	2048.0	2121.6	2263.6	2282.0	2540.9	2722.3
30°	2323.3	2317.5	2309.6	2268.2	2168.9	2093.3	2132.8	2251.0	2270.1	2524.4	2702.6
32.5°	2475.1	2493.6	2486.3	2437.7	2308.9	2181.4	2168.9	2249.8	2265.5	2512.0	2680.9
35°	2636.2	2644.8	2678.9	2653.9	2521.8	2324.0	2236.6	2270.1	2282.6	2512.7	2665.8
37.5°	2762.3	2785.4	2865.5	2887.2	2763.0	2512.7	2346.4	2328.0	2333.2	2544.9	2671.7
40°	2914.9	2954.3	3057.5	3146.2	3064.7	2757.8	2533.0	2435.1	2441.7	2622.4	2710.5
42.5°	3108.1	3135.7	3274.3	3394.6	3381.5	3081.8	2759.1	2610.5	2613.8	2776.8	2818.9
45°	3334.1	3373.6	3529.4	3710.2	3741.0	3448.5	3085.7	2876.1	2874.1	3016.8	3021.4
47.5°	3623.4	3647.7	3802.2	3999.3	4124.2	3909.3	3482.1	3257.3	3236.3	3366.4	3328.9
50°	3889.5	3927.6	4044.6	4260.3	4571.1	4448.9	4003.2	3751.5	3702.3	3823.9	3760.7
52.5°	4001.3	4041.3	4140.0	4407.4	4954.2	5146.8	4665.1	4341.1	4258.9	4352.3	4329.2
55°	3807.4	3859.3	3951.4	4276.7	5122.5	5952.0	5557.7	5022.6	4962.8	4922.7	4929.3
57.5°	3286.2	3335.5	3459.7	3818.6	4921.4	6536.3	6832.0	5898.8	5770.6	5585.9	5617.5
60°	2501.5	2532.3	2596.8	2994.4	4325.3	6688.1	8279.2	7006.2	6924.7	6246.4	6268.7
62.5°	1776.5	1811.3	1856.1	2054.6	3166.6	6260.2	9412.4	8552.7	8261.5	6930.6	6908.9
65°	1442.7	1419.0	1472.8	1565.5	1858.0	4851.7	9667.4	10699.2	10298.3	7831.6	7530.7
67.5°	1186.3	1161.3	1214.6	1379.6	1413.0	2816.3	8748.5	12092.6	12012.4	8811.7	8162.2
69°	1050.2	1037.1	1083.8	1271.8	1356.5	2000.0	7621.4	12286.5	12305.5	9389.3	8259.5
70°	946.5	951.7	997.0	1217.2	1330.9	1649.0	6513.9	12019.0	12180.6	9677.9	8154.4
72.5°	696.7	707.9	770.9	1008.2	1306.6	1399.3	3876.4	10498.1	10784.0	9695.0	7459.7
75°	487.0	481.7	537.7	759.1	1234.3	1386.8	2276.7	8118.9	8442.9	8379.8	6268.1
77.5°	318.7	327.3	372.0	536.3	1038.5	1376.3	1484.0	5760.1	5970.3	5604.3	3707.5
80°	224.8	224.1	249.1	366.1	770.3	1322.4	1215.2	3630.6	3577.4	2202.4	1099.5
82.5°	128.8	138.0	166.9	257.6	515.3	1163.9	1117.9	1736.4	1585.3	627.6	371.3
85°	71.7	74.9	99.2	155.8	301.0	876.7	976.0	790.0	745.3	262.2	159.7
87.5°	23.0	25.0	41.4	78.9	136.7	414.0	552.7	364.7	336.5	94.6	64.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7
2.5°	2744.6	2752.5	2731.5	2711.1	2692.7	2667.1	2644.1	2625.0	2611.9	2609.9	2603.3
5°	2753.9	2754.5	2714.4	2660.5	2607.9	2550.1	2490.3	2447.6	2407.4	2385.2	2374.0
7.5°	2760.4	2754.5	2682.2	2594.8	2493.6	2388.4	2283.2	2199.1	2134.0	2108.5	2118.3
10°	2757.8	2739.4	2633.6	2493.6	2346.4	2189.3	2038.1	1919.8	1811.3	1755.5	1756.8
12.5°	2743.3	2713.1	2561.3	2379.9	2163.6	1953.3	1721.9	1562.2	1436.8	1362.4	1339.5
15°	2730.8	2678.2	2476.5	2225.5	1956.6	1656.3	1374.3	1177.1	1071.9	1013.5	1012.8
17.5°	2717.7	2644.8	2383.8	2061.8	1718.7	1332.2	1036.4	886.0	836.6	842.6	832.8
20°	2703.9	2605.3	2287.2	1879.7	1428.9	993.7	776.2	715.1	728.9	755.8	759.8
22.5°	2688.1	2563.2	2183.3	1679.2	1123.9	747.9	629.7	620.4	655.9	698.0	703.9
25°	2663.8	2510.6	2052.5	1469.6	866.9	602.7	551.4	558.0	592.8	628.3	632.3
27.5°	2629.6	2445.6	1920.4	1208.0	651.4	517.2	504.1	512.7	529.7	551.4	556.7
30°	2583.6	2372.0	1768.6	982.0	521.8	474.5	469.3	473.9	483.7	492.9	495.6
32.5°	2537.6	2301.0	1615.5	751.9	465.3	446.2	441.0	441.0	441.0	442.3	443.0
35°	2494.9	2233.9	1451.2	585.6	435.7	423.9	416.7	408.8	407.5	402.9	402.9
37.5°	2471.2	2172.8	1276.4	490.3	414.0	405.5	395.7	382.5	375.3	375.9	374.7
40°	2475.8	2132.8	1117.3	436.4	396.3	387.1	372.0	356.9	352.3	352.3	350.9
42.5°	2527.7	2119.6	964.8	408.1	379.2	368.7	349.7	335.8	333.2	332.5	333.9
45°	2647.4	2151.8	828.1	389.7	364.7	349.0	329.9	317.5	314.8	314.8	314.2
47.5°	2880.7	2256.3	730.2	377.9	354.2	333.9	314.2	301.7	297.0	295.8	295.8
50°	3243.5	2483.1	657.2	367.4	341.1	320.1	299.7	285.3	278.0	277.4	276.7
52.5°	3747.6	2836.7	629.0	359.5	326.6	305.6	283.2	269.5	260.3	258.3	257.0
55°	4337.1	3330.3	667.8	353.6	311.5	289.2	266.2	251.7	243.2	239.3	238.6
57.5°	5020.0	3923.1	815.0	345.7	297.7	271.5	249.1	234.6	225.5	220.8	219.5
60°	5633.2	4532.3	1071.9	341.1	285.9	252.4	229.3	216.2	207.7	203.1	202.4
62.5°	6306.9	5113.4	1378.9	353.6	280.6	234.0	211.0	199.1	191.9	187.3	187.3
65°	7026.6	5695.0	1582.0	395.7	288.5	219.5	191.2	181.4	174.8	171.6	170.9
67.5°	7511.6	5896.1	1303.3	439.0	308.2	203.8	172.2	164.3	160.4	157.1	157.1
69°	7459.0	5641.8	961.5	450.2	314.2	195.9	161.6	155.8	150.5	149.2	147.8
70°	7292.7	5352.0	805.8	443.0	309.6	188.6	155.1	147.8	143.3	142.0	141.3
72.5°	6495.5	4641.4	600.1	385.2	263.6	163.7	137.3	130.8	126.8	124.9	124.9
75°	5396.6	3793.6	468.6	306.3	206.4	138.0	117.7	112.4	109.1	107.8	107.1
77.5°	3024.7	2118.3	336.5	239.9	156.4	111.8	98.6	94.0	90.7	89.4	89.4
80°	842.6	605.4	197.8	158.4	106.5	84.8	78.2	74.9	70.3	67.0	69.0
82.5°	317.5	262.2	113.0	95.3	67.7	56.5	54.6	51.9	50.0	45.3	45.3
85°	154.5	127.5	72.3	50.6	37.4	29.6	28.3	26.9	25.7	22.4	23.0
87.5°	53.2	56.5	31.5	18.4	11.2	7.2	5.9	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)